

April 28, 2011

MEMORANDUM TO: Edwin M. Hackett, Executive Director
Advisory Committee on Reactor Safeguards

FROM: David B. Matthews, Director */RA/*
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: UNITED STATES - ADVANCED PRESSURIZED WATER REACTOR
DESIGN CERTIFICATION APPLICATION - SAFETY EVALUATION
WITH OPEN ITEMS FOR CHAPTER 5, "REACTOR COOLANT
SYSTEM AND CONNECTING SYSTEMS"

By letter dated December 31, 2007, as supplemented by letters dated March 27, 2008, and April 16, 2008, Mitsubishi Heavy Industries, Ltd. (MHI) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a standard Design Certification of the United States - Advanced Pressurized Water Reactor.

Based on our review of the application, the NRC staff is providing the Advisory Committee on Reactor Safeguards (ACRS) its Safety Evaluation (SE), with Open Items for Chapter 5, "Reactor Coolant System and Connecting Systems" (Agencywide Documents Access and Management System (ADAMS) Accession Number ML111030441). Unless otherwise stated in the SE, the NRC staff's review was based on Revision 2 of the application. The SE is being provided to support a meeting of the subcommittee of the ACRS scheduled for May 27, 2011. The ACRS Full Committee meeting will be held after the subcommittee meeting.

The staff has reviewed the Memorandum to the Executive Director of Operations dated February 17, 2010, and reviewed our submitted information against the categories that the ACRS requested to be used to highlight information for review by the Committee. Our assessment of this chapter is that there are no items that meet the categories for discussion with the Committee.

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E. Hackett

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The NRC staff concludes that the SE does not contain any information exempt from public disclosure. However, the NRC staff will withhold the SE from public disclosure for ten business days to allow MHI the opportunity to verify the NRC staff's conclusion that the SE contains no such exempt information. Therefore, the NRC staff requests that the ACRS withhold the SE from public disclosure until it has been released publicly in the ADAMS.

The NRC staff will inform the ACRS immediately if MHI requests that any of the information in the SE be withheld from public disclosure.

Docket No. 52-021

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The NRC staff will inform the ACRS immediately if MHI requests that any of the information in the SE be withheld from public disclosure.

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**ADAMS Accession Nos.: ML111030107 (Pkg); ML111030441 (SER);
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